



MAJOR SOURCE OPERATING PERMIT

Permittee: **American Foam Cast, Inc.**

Facility Name: **American Foam Cast, Inc.**

Facility No.: 309-0044

Location: Sylacauga, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *October X, 2020*

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Alabama Department of Environmental Management

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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	<p>Rule 335-3-16-.02(6)</p>
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>Rule 335-3-16-.12(2)</p>
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>Rule 335-3-16-.05(e)</p>
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of</p>	Rule 335-3-16-.07(b)

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<p style="text-align: center;">ADEM Admin. Code r. 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p>	<p>Rule 335-3-4-.02</p>

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<p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p> <p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p> <p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	<p>Rule 335-3-16-.13 and .14</p> <p>Rule 335-3-16-.05(c)2.</p>

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<p>(3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>(4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in Rule 335-1-7-.04.</p>	Rule 335-1-7-.04
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	Rule 335-3-1-.04(1)
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and</p>	40 CFR Part 82

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<p>recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p> <p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p> <p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p> <p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p> <p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by</p>	<p>40 CFR Part 68</p> <p>Rule 335-3-14-.01(1)(d)</p> <p>Rule 335-3-1-.10</p> <p>Rule 335-3-4-.01(1)</p>

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<p>40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) <u>Operation of Approved Monitoring</u></p> <p>(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for</p>	<p>40 CFR 64.7</p>

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<p>routine repairs of the monitoring equipment.</p> <p>(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p> <p>(4) <i>Response to excursions or exceedances.</i> (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in</p>	

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<p>response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) <i>Documentation of need for improved monitoring.</i> After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p> <p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <p style="padding-left: 20px;">a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p>	<p>40 CFR 64.8</p>

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<p>b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <ul style="list-style-type: none"> i. Improved preventive maintenance practices. ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). <p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <ul style="list-style-type: none"> a. Failed to address the cause of the control device performance problems; or b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable</p>	

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<p style="text-align: center;">requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) <i>General reporting requirements</i></p> <p>a. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code r. 335-3-16-.05(c)3.</p> <p>b. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code r. 335-3-16-.05(c)3. and the following information, as applicable:</p> <p>i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>iii. A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) <i>General recordkeeping requirements.</i></p> <p>a. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code r. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions</p>	<p>40 CFR 64.9</p>

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<p>taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p> <p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>a. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>b. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p>	<p>40 CFR 64.10</p>

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c. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.	

Summary Page for Foam Pattern Making Process

**Permitted Operating
Schedule:**

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
FUG	Foam Pattern Making Process	VOC	N/A	N/A

Provisos for Foam Pattern Making Process

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
<i>Emission Standards</i>	
1. This process is subject to no additional specific requirements other those listed in the General Permit Provisos.	N/A
<i>Compliance and Performance Test Methods and Procedures</i>	
1. This process is subject to no additional specific requirements other than those listed in the General Permit Provisos.	N/A
<i>Emission Monitoring</i>	
1. This process is subject to no additional specific requirements other those listed in the General Permit Provisos.	N/A
<i>Recordkeeping and Reporting Requirements</i>	
1. This process is subject to no additional specific requirements other those listed in the General Permit Provisos.	N/A

Summary Page for Two Aluminum Melting Furnaces

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
002	Two Natural Gas Aluminum Melting Furnaces	PM	The lesser of: 3.74 lb/hr or The allowable set by $3.59(P)^{0.62}$	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Opacity	20%/40%	Rule 335-3-4-.01(1)
		SO ₂	N/A	N/A
		NO _x	N/A	N/A
		CO	N/A	N/A
		VOC	N/A	N/A

Provisos for Two Aluminum Melting Furnaces

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin Code r. 335-3-4-.04, “ <i>Control of Particulate emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
4. These sources have an enforceable limit in order to prevent them from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 (Anti-PSD)
Emission Standards	
1. Visible emissions from these units shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from these sources shall not exceed the lesser of the Anti-PSD limit of 3.47 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
3. Only clean metal such as “pigs”, foundry returns, and similar types of clean aluminum shall be charged or melted in the furnaces.	Rule 335-3-16-.04
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. These sources are subject to no additional specific requirements other than those listed in the General Provisos.	N/A

Recordkeeping and Reporting Requirements

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| 1. These sources are subject to no additional specific requirements other than those listed in the General Provisos. | N/A |
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Summary Page for EPS Casting/Molding Unit w/ Shared Baghouse

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	EPS Casting and Molding with Shared Baghouse	PM	The lesser of: 23.78 lb/hr or The allowable set by 17.31(P) ^{0.16}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
		Styrene	N/A	N/A
		Benzene	N/A	N/A
		CO	N/A	N/A
		NO _x	N/A	N/A
		SO ₂	N/A	N/A
		Opacity	20%/40%	Rule 335-3-4-.01(1)
		HAPs	N/A	N/A

Provisos for EPS Casting/Molding Unit w/ Shared Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.0, “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
4. This source has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 (Anti-PSD)
5. This process is subject to the applicable requirements of 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”.	40 CFR §64.2
Emission Standards	
1. Visible emissions from this source shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from the EPS Casting/Molding Unit shall not exceed the lesser of the Anti-PSD limit of 23.78 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
3. The EPS Casting/Molding Unit shall not operate more than 4,800 hours in any consecutive twelve month period.	Rule 335-3-14-.04 (Anti-PSD) 40 CFR Part 64
4. The shared baghouse shall maintain an opacity reading less than five percent (5%) and not exceed ten percent (10%) for more than four (4) hours.	40 CFR Part 64
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05

Emission Monitoring

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| 1. Reference Appendix A for the monitoring requirements for 40 CFR Part 64, "Compliance Assurance Monitoring". | 40 CFR §64.7 |
| 2. The facility shall perform a visual check, once per day, of the stack associated with this unit. This check shall be performed by a person familiar with Method 9. If the instantaneous opacity of emissions in excess of 10% are noted at any time and are not corrected within a period of 1 hour, then a Method 9 observation must be performed within 4 hours of the initial observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded. | Rule 335-3-16-.05(c) |
| 3. The facility shall conduct the following weekly inspections:
(a) Check hopper, fan, and cleaning cycle for proper operation.
(b) Perform a visual check of all hoods and ductwork. | Rule 335-3-16-.05(c) |
| 4. The facility shall conduct an annual inspection of the complete baghouse unit. This shall include:
(a) Baghouse structure, access doors, door seals, and bags.
(b) An internal inspection of the baghouse hoppers. | Rule 335-3-16-.05(c)
40 CFR Part 64 |
| 5. The facility shall monitor differential pressure of the baghouse daily. | 40 CFR Part 64 |
| 6. The facility shall calibrate the pressure gauge annually. If an erratic or abnormal reading is observed then the instrument shall be inspected and either calibrated or replaced. | 40 CFR Part 64 |

Recordkeeping and Reporting Requirements

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| 1. All record shall be maintained in a form suitable for inspection for a period of at least five years. | Rule 335-3-16-.05(c) |
| 2. The facility shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. | Rule 335-3-16-.05(c) |
| 3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results should be documented using an ADEM visible emissions observation report, and the cause and corrective action taken will be documented. | Rule 335-3-16-.05(c) |
| 4. The facility shall record the baghouse pressure daily. Any deviations from the pressure range shall be documented along with the corrective action and reported to the Department | 40 CFR Part 64 |

within two (2) working days.

5. Records of monthly and 12-month rolling totals of the hours of operation shall be recorded.

Rule 335-3-16-.05(c)

Summary Page for Three Shotblast Machines w/ Shared Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	Goff Shotblast Machine with Baghouse	PM	The lesser of: 15.52 lb/hr or The allowable set by 3.59(P) ^{0.62}	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
	DeLong Shotblast Machine with Baghouse	PM	3.59(P) ^{0.62}	Rule 335-3-4-.04(1)
	Bronco Shotblast Machine with Baghouse	PM	3.59(P) ^{0.62}	Rule 335-3-4-.04(1)
	Goff, DeLong, and Bronco Shotblast Machines with Baghouse	Opacity	(see general provisos)	Rule 335-3-4-.01(1)

Provisos for Three Shotblast Machines w/ Shared Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01
3. These sources are subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
4. The Goff Shotblast has an enforceable limit in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04, “ <i>Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]</i> ”.	Rule 335-3-14-.04 (Anti-PSD)
5. The Goff Shotblast is subject to the applicable requirements of 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”.	40 CFR §64.2
Emission Standards	
1. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from the Goff Shotblast machine shall not exceed the lesser of the Anti-PSD limit of 15.52 lb/hr or the allowable set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-14-.04 (Anti-PSD) Rule 335-3-4-.04(1)
3. Particulate matter emissions from the Delong Shotblast machine shall not exceed the allowable as set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
4. Particulate matter emissions from the Bronco Shotblast machine shall not exceed the allowable as set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos**Regulations*****Emission Monitoring***

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| 1. Reference Appendix A for the monitoring requirements for 40 CFR Part 64, “ <i>Compliance Assurance Monitoring</i> ”. | 40 CFR §64.7 |
| 2. The facility shall perform a visual check, once per day, of the stack associated with this unit. This check shall be performed by a person familiar with Method 9. If the instantaneous opacity of emissions in excess of 10% are noted at any time and are not corrected within a period of 1 hour, then a Method 9 observation must be performed within 4 hours of the initial observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded. | Rule 335-3-16-.05(c) |
| 3. The facility shall conduct the following weekly inspections:

(a) Check hopper, fan, and cleaning cycle for proper operation.

(b) Perform a visual check of all hoods and ductwork. | Rule 335-3-16-.05(c) |
| 4. The facility shall conduct an annual inspection of the complete baghouse unit. This shall include:

(a) Baghouse structure, access doors, door seals, and bags.

(b) An internal inspection of the baghouse hoppers. | Rule 335-3-16-.05(c)
40 CFR Part 64 |
| 5. The facility shall monitor differential pressure of the baghouse daily. | 40 CFR Part 64 |
| 6. The facility shall calibrate the pressure gauge annually. If an erratic or abnormal reading is observed then the instrument shall be inspected and either calibrated or replaced. | 40 CFR Part 64 |

Recordkeeping and Reporting Requirements

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| 1. All records shall be maintained in a form suitable for inspections for a period of at least five years. | Rule 335-3-16-.05(c) |
| 2. The facility shall maintain a record of all inspections performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. | Rule 335-3-16-.05(c) |
| 3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results should be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented. | Rule 335-3-16-.05(c) |
| 4. The facility shall record the baghouse pressure daily. Any deviations from the pressure range shall be documented along | 40 CFR Part 64 |

Federally Enforceable Provisos

Regulations

with the corrective action and reported to the Department
within two (2) working days.

Summary Page for Thermal Reclamation Unit w/ Shared Baghouse

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
001	Thermal Reclamation Unit with Baghouse	PM	3.59(P) ^{0.62}	Rule 335-3-4-.04(1)
		Styrene	N/A	N/A
		Benzene	N/A	N/A
		HAPs	N/A	N/A
		Opacity	20%/40%	Rule 335-3-4-.01(1)

Provisos for Thermal Reclamation Unit w/ Shared Baghouse

Federally Enforceable Provisos	Regulations
Applicability	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.04, “ <i>Control of Particulate Emissions – Process Industries – General</i> ”.	Rule 335-3-4-.04
Emission Standards	
1. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from this unit shall not exceed the allowable as set by ADEM Admin. Code r. 335-3-4-.04(1).	Rule 335-3-4-.04(1)
Compliance and Performance Test Methods and Procedures	
1. Method 9 of 40 CFR Part 60, Appendix A, shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
Emission Monitoring	
1. The facility shall perform a visual check, once per day, of the stack associated with this unit. This check shall be performed by a person familiar with Method 9. If the instantaneous opacity of emissions in excess of 10% are noted at any time and are not corrected within a period of 1 hour, then a Method 9 observation must be performed within 4 hours of the initial observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. The facility shall conduct the following weekly inspections:	Rule 335-3-16-.05(c)
(a) Check hopper, fan, and cleaning cycle for proper operation.	
(b) Perform a visual check of all hoods and ductwork.	
3. The facility shall conduct an annual inspection of the complete	Rule 335-3-16-.05(c)

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baghouse unit. This shall include:

- (a) Baghouse structure, access doors, door seals, and bags.
- (b) An internal inspection of the baghouse hoppers.

4. The facility shall monitor differential pressure of the baghouse daily.

Rule 335-3-16-.05(c)

5. The facility shall calibrate the pressure gauge annually. If an erratic or abnormal reading is observed then the instrument shall be inspected and either calibrated or replaced.

Rule 335-3-16-.05(c)

Recordkeeping and Reporting Requirements

1. All records shall be maintained in a form suitable for inspection for a period of at least five years.

Rule 335-3-16-.05(c)

2. The facility shall maintain a record of all inspections, to include visible observations and Method 9 observations performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken.

Rule 335-3-16-.05(c)

3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a form suitable for inspection.

Rule 335-3-16-.05(c)

4. The Permittee shall record the baghouse pressure daily. Any deviations from the pressure range shall be documented along with the corrective action and reported to the Department within two (2) working days.

Rule 335-3-16-.05(c)

Summary Page for Boiler System

Permitted Operating Schedule:

24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
003	Cleaver-Brooks Steam Boiler	PM	0.5 lb/MMBtu	Rule 335-3-4-.03(1)
		CO	N/A	N/A
		SO ₂	4.0 lb/MMBtu	Rule 335-3-5-.01(1)(b)
		NO _x	N/A	N/A
		Opacity	(see general provisos)	Rule 335-3-4-.01(1)

Provisos for Boiler System

Federally Enforceable Provisos	Regulations
<i>Applicability</i>	
1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16-.03, “ <i>Major Source Operating Permits</i> ”.	Rule 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.01, “ <i>Control of Particulate Emissions – Visible Emissions</i> ”.	Rule 335-3-4-.01
3. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-4-.03, “ <i>Control of Particulate Emissions – Fuel Burning Equipment</i> ”.	Rule 335-3-4-.03
4. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-5-.01, “ <i>Control of Sulfur Compound Emissions – Fuel Combustion</i> ”.	Rule 335-3-5-.01
5. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart DDDDD, “ <i>National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters</i> ”.	Rule 335-3-11-.06(108) 40 CFR §63.7585
6. This source is subject to the applicable requirements of 40 CFR Part 63, Subpart A, “ <i>General Provisions</i> ”, as provided in Table 10 to 40 CFR Part 63, Subpart DDDDD.	Rule 335-3-11-.06(1) 40 CFR §63.7565
<i>Emission Standards</i>	
1. Visible emissions from these sources shall not exceed the opacity limitations as specified in General Proviso No. 29.	Rule 335-3-4-.01(1)
2. Particulate matter emissions from this source shall not exceed 0.5 lb/MMBtu.	Rule 335-3-4-.03(1)
3. Sulfur dioxide emissions from this source shall not exceed 4.0 lb/MMBtu.	Rule 335-3-5-.01(1)(b)
4. The Permittee must operate and maintain these sources, at all times, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	40 CFR §63.7500(a)(3)
<i>Compliance and Performance Test Methods and Procedures</i>	
1. Method 9 of 40 CFR Part 60, Appendix A shall be used in the determination of opacity.	Rule 335-3-1-.05
2. Method 5 of 40 CFR Part 60, Appendix A, shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05

Federally Enforceable Provisos**Regulations**

3. Method 6 of 40 CFR Part 60, Appendix A shall be used in the determination of sulfur dioxide emissions.	Rule 335-3-1-.05
<i>Emission Monitoring</i>	
1. The facility shall perform a visual check, once per day, of the stack associated with this unit. This check shall be performed by a person familiar with Method 9. If the instantaneous opacity of emissions in excess of 10% are noted at any time and are not corrected within a period of 1 hour, then a Method 9 observation must be performed within 4 hours of the initial observation. Maintenance shall be performed as needed. Any repairs or observed problems shall be recorded.	Rule 335-3-16-.05(c)
2. The facility must conduct biennial tune-ups of the boiler based on the requirements in 40 CFR §63.7540(a)(10)(i) through §63.7540(a)(10)(vi). If a boiler is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.	40 CFR §63.7540(a)(11) 40 CFR §63.7540(a)(13)
<i>Recordkeeping and Reporting Requirements</i>	
1. All records shall be maintained in a form suitable for inspection for a period of at least five years.	Rule 335-3-16-.05(c)
2. The facility shall maintain a record of all inspections, to include visible observations and Method 9 observations performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken.	Rule 335-3-16-.05(c)
3. If a visible emission observation is required using the 40 CFR, Part 60, Appendix A, Method 9, the results will be documented using an ADEM visible emissions observation report and the cause and corrective action taken will be documented in a form suitable for inspection.	Rule 335-3-16-.05(c)
4. The facility shall maintain a record of all biennial tune-ups available on request. These records shall contain the following information: (a) The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater. (b) A description of any corrective actions taken as a part of the tune-up.	Rule 335-3-16-.05(c) 40 CFR §63.7540(a)(10)(vi)
5. If the facility intends to use a fuel other than natural gas to fire this boiler unit during a period of natural gas curtailment or supply interruption, as defined in §63.7575, you must submit a	40 CFR §63.7545(f)

Federally Enforceable Provisos**Regulations**

notification of alternative fuel use within 48 hours of the declaration of each period of natural gas curtailment or supply interruption.

6. The facility shall submit a biennial compliance report as required by §63.7550(b).

40 CFR §63.7550(b)

Appendix A: Compliance Assurance Monitoring (CAM)

I. Indicator	Differential Pressure	Visible Emission
II. Measurement Approach	Measured using a Magnehelic Differential Pressure Gauge	Visual inspection of the baghouse stack
III. Indicator Range	While the unit is operation, an excursion is defined as a pressure differential below 2.0 inches of H ₂ O or greater than 7.0 inches of H ₂ O. Excursions trigger an inspection, corrective action, and a reporting requirement.	Baghouse stack visual emission opacity should be less than 5%. Excursions of opacity shall not exceed 10% for more than 4 hrs. Excursions trigger an inspection, corrective action, and a reporting requirement. If an excursion is noted and not corrected within a period of one hour, then a method 9 must be performed with four hours of the observation.
IV. Performance Criteria		
Data Representativeness	The pressure gauge measures the pressure differential between the inlet and outlet of the baghouse.	Baghouse shell is visually inspected for deterioration. If needed, it is repaired or replaced. Broken or leaking filter bags are replaced.
Verification of Operation Status	Not applicable	Not applicable
QA/QC Practices and Criteria	The pressure gauge shall be calibrated annually. If abnormal pressure is found, the gauge shall be inspected and corrected or replaced.	Opacity readings shall be taken by a person fully trained and qualified according to EPA standards. Gauge calibration shall be conducted when erratic reading are displayed, or at least annually.
Monitoring Frequency	The pressure differential shall be monitored and logged daily.	The complete Baghouse Unit shall be inspected at least annually. The visual emission shall be performed daily.
Data Collection Procedures	The pressure differential will be recorded with the time, date, and name of the observer.	A record of the results of the Baghouse inspection shall be kept with the time, date, bags condition and number replaced.
Averaging Period	Instantaneous	Instantaneous